es of the
bus which drives the slave devices.

Detailed Description Text - DETX (382):
    The same plus and minus signal lines connected to the bus
provide receive
signals which can be received by the line receiver portion of
U49, as shown in
FIG. 83. The output of the line receiver drives optical
isolator U53.   U53
then provides receive signals RXDN to the node. The received
signals also
drive another portion of **retriggerable** one shot U51. This
provides an
uninterrupted sourcing current to a light emitting diode or
other indicator to
show that the node is receiving data. It should be noted
that the
retriggerable one shots provide uninterrupted current to the
transmit and
receive indicators so that the indicators remain constantly
illuminated while
data transitions are occurring in the transmission or
reception of data. This
is different from conventional approaches in which the **LED** or
other indicator
is flashed as signals are transmitted and received. This
flashing introduces
noise currents which do not occur in the present invention.

Detailed Description Text - DETX (383):
    It should be noted that the fig

L Number	Hits	Search Text	DB	Time stamp
7	68	data near5 security same indicat$4.ab.	USPAT	2004/08/03 15:27
8	19	data near5 security same (indicator$1 or indication$1).ab.	USPAT	2004/08/03 15:32
9	0	data near5 security same (prevent$4) near15 indicator$1	USPAT	2004/08/03 15:33
10	0	data near5 security same (prevent$4) near5 theft near15 indicator$1	USPAT	2004/08/03 15:33
11	0	data near5 security same (prevent$4) near5 theft near25 indicator$1	USPAT	2004/08/03 15:34
12	0	(prevent$4) near5 theft near10 data near25 indicator$1	USPAT	2004/08/03 15:34
13	0	(prevent$4) near5 theft near15 data near25 indicator$1	USPAT	2004/08/03 15:34
14	89	data near15 (theft or security) near25 indicator$1	USPAT	2004/08/03 15:35
15	87	data near15 (theft or security) near20 indicator$1	USPAT	2004/08/03 15:35
16	80	data near15 (theft or security) near15 indicator$1	USPAT	2004/08/03 15:35
17	18	data near15 (theft or security).ab. and (data near15 (theft or security) near15 indicator$1)	USPAT	2004/08/03 15:35
18	12	(data near15 (theft or security).ab. and (data near15 (theft or security) near15 indicator$1)) not (data near5 security same (indicator$1 or indication$1).ab.)	USPAT	2004/08/03 15:46
19	0	4941174.pn. and "102"	USPAT	2004/08/03 15:47
20	0	4941174.pn. and (led$1 or "102")	USPAT	2004/08/03 15:47
21	1	4941174.pn.	USPAT	2004/08/03 15:50
22	42	(data or security) near5 (leak$4 or breach$4) near25 (indicator$1 or led$1)	USPAT	2004/08/03 15:56
23	12397	(filter$4 or lpf or isolat$4) near15 (indicator$1 or led$1)	USPAT	2004/08/03 15:57
24	10942	(filter$4 or lpf or isolat$4) near10 (indicator$1 or led$1)	USPAT	2004/08/03 15:57
25	10474	(filter$4 or lpf or isolat$4) near10 (indicator$1 or led)	USPAT	2004/08/03 15:58
26	9463	(filter$4 or lpf or isolat$4) near8 (indicator$1 or led)	USPAT	2004/08/03 15:58
27	7245	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led)	USPAT	2004/08/03 15:58
28	366	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led).ab.	USPAT	2004/08/03 15:58
29	1	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led) and ((filter$4 or lpf or isolat$4) near5 (indicator$1 or led).ab.) and data near8 (security or theft or leak$4)	USPAT	2004/08/03 15:59
30	62	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led) and ((filter$4 or lpf or isolat$4) near15 (indicator$1 or led$1)) and data near8 (security or theft or leak$4)	USPAT	2004/08/03 16:00
31	5	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led) and ((filter$4 or lpf or isolat$4) near15 (indicator$1 or led$1)) same data near8 (security or theft or leak$4)	USPAT	2004/08/03 16:02
32	3	(filter$4 or lpf or isolat$4) near15 (indicator$1) same data near8 (security or theft or leak$4)	USPAT	2004/08/03 16:03
33	61	(filter$4 or lpf or isolat$4) near15 (indicator$1) and data near8 (security or theft or leak$4)	USPAT	2004/08/03 16:04
34	58	((filter$4 or lpf or isolat$4) near15 (indicator$1) and data near8 (security or theft or leak$4)) not ((filter$4 or lpf or isolat$4) near15 (indicator$1) same data near8 (security or theft or leak$4))	USPAT	2004/08/03 16:26
35	9	(("6115713") or ("5884072") or ("5598566") or ("5550980") or ("5552044") or ("5511188") or ("5463735") or ("5444851") or ("5384697")).PN.	USPAT	2004/08/03 16:27

36	8	(((("6115713") or ("5884072") or ("5598566") or ("5550980") or ("5552044") or ("5511188") or ("5463735") or ("5444851") or ("5384697")).PN.) and (retrigger$ or led$1)	USPAT	2004/08/03 16:30
37	0	340/$.ccls. and (retriggerable adj one-shot) near3 (indicator$1 or led$1)	USPAT	2004/08/03 16:30
38	1	340/$.ccls. and (retriggerable adj one-shot) near10 (indicator$1 or led$1)	USPAT	2004/08/03 16:32
39	1	340/$.ccls. and (retriggerable adj one-shot) near15 (indicator$1 or led$1)	USPAT	2004/08/03 16:32
40	2	340/$.ccls. and (retriggerable adj one-shot) near20 (indicator$1 or led$1)	USPAT	2004/08/03 16:38
41	1	(retrigger$ adj (one adj shot or one-shot) near20 (status or transmit$4)) near3 (indicator$1 or led$1)	USPAT	2004/08/03 16:39

US-PAT-NO: 6115713

DOCUMENT-IDENTIFIER: US 6115713 A

TITLE: Networked facilities management system

---------- KWIC ---------

Brief Summary Text - BSTX (231):
    Still other aspects of the above objects of the invention
are accomplished
by a customized optical interface to a local optical bus
compatible with the
RS/485 Electronic Industries Association specification. The
interface employs
bias circuitry which is used to "swamp out" differential mode
noise on the
leads of the bus and transorb and MOV circuitry to shunt
common mode and
excessive differential-mode noise to ground. Optical
isolators provided
isolation between digital and communications power supplies
and retriggerable
one shots are used to activate data transmission and
reception indicators such
as LEDS.

Detailed Description

US-PAT-NO: 5884072

DOCUMENT-IDENTIFIER: US 5884072 A

TITLE: Networked facilities management system
with updated data
                          based on aging time

---------- KWIC ---------

Brief Summary Text - BSTX (226):
    Still other aspects of the above objects of the invention
are accomplished
by a customized optical interface to a local optical bus
compatible with the
RS/485 Electronic Industries Association specification. The
interface employs
bias circuitry which is used to "swamp out" differential mode
noise on the
leads of the bus and transorb and MOV circuitry to shunt
common mode voltage
and excessive differential-mode noise to ground. Optical
isolators provide
isolation between digital and communications power supplies
and retriggerable
one shots are used to activate data transmission and
reception indicators such
as LEDs.

Detailed Descriptio

US-PAT-NO: 5598566

DOCUMENT-IDENTIFIER: US 5598566 A
See image for Certificate of Correction

TITLE: Networked facilities management system
having a node
                          configured with distributed load
management software to
                          manipulate loads controlled by other
nodes

---------- KWIC ---------

Brief Summary Text - BSTX (226):
    Still other aspects of the above objects of the invention
are accomplished
by a customized optical interface to a local optical bus
compatible with the
RS/485 Electronic Industries Association specification. The
interface employs
bias circuitry which is used to "swamp out" differential mode
noise on the
leads of the bus and transorb and MOV circuitry to shunt
common mode voltage
and excessive differential-mode noise to ground. Optical
isolators provide
isolation between digital and communications power supplies
and retriggerable
one shots are used to activate data transmission and
reception indicators such
as LEDs.

Detailed Description

US-PAT-NO: 5550980

DOCUMENT-IDENTIFIER: US 5550980 A

TITLE: Networked facilities management system
with optical

                          coupling of local network devices

---------- KWIC ---------

Brief Summary Text - BSTX (226):
    Still other aspects of the above objects of the invention
are accomplished
by a customized optical interface to a local optical bus
compatible with the
RS/485 Electronic Industries Association specification. The
interface employs
bias circuitry which is used to "swamp out" differential mode
noise on the
leads of the bus and transorb and MOV circuitry to shunt
common mode voltage
and excessive differential-mode noise to ground. Optical
isolators provide
isolation between digital and communications power supplies
and retriggerable
one shots are used to activate data transmission and
reception indicators such
as LEDs.

Detailed Descriptio

US-PAT-NO: 5522044

DOCUMENT-IDENTIFIER: US 5522044 A

TITLE: Networked facilities management system

---------- KWIC ---------

Brief Summary Text - BSTX (226):
   Still other aspects of the above objects of the invention
are accomplished
by a customized optical interface to a local optical bus
compatible with the
RS/485 Electronic Industries Association specification. The
interface employs
bias circuitry which is used to "swamp out" differential mode
noise on the
leads of the bus and transorb and MOV circuitry to shunt
common mode voltage
and excessive differential-mode noise to ground. Optical
isolators provide
isolation between digital and communications power supplies
and retriggerable
one shots are used to activate data transmission and
reception indicators such
as LEDs.

Detailed Descripti

US-PAT-NO: 5511188

DOCUMENT-IDENTIFIER: US 5511188 A

TITLE: Networked facilities management system
with time stamp
                       comparison for data base updates

---------- KWIC ---------

Brief Summary Text - BSTX (226):
    Still other aspects of the above objects of the invention
are accomplished
by a customized optical interface to a local optical bus
compatible with the
RS/485 Electronic Industries Association specification. The
interface employs
bias circuitry which is used to "swamp out" differential mode
noise on the
leads of the bus and transorb and MOV circuitry to shunt
common mode voltage
and excessive differential-mode noise to ground. Optical
isolators provide
isolation between digital and communications power supplies
and retriggerable
one shots are used to activate data transmission and
reception indicators such
as LEDs.

Detailed Descriptio

US-PAT-NO: 5463735

DOCUMENT-IDENTIFIER: US 5463735 A

TITLE: Method of downloading information
stored in an arching
                      device to destination network
controller through

                      intermediate network controllers in
accordance with

                      routing information

---------- KWIC ---------

Abstrac

US-PAT-NO: 5444851

DOCUMENT-IDENTIFIER: US 5444851 A

TITLE: Method of accessing configured nodes
in a facilities
                        management system with a non-configured
device

---------- KWIC ---------

Brief Summary Text - BSTX (226):
    Still other aspects of the above objects of the invention
are accomplished
by a customized optical interface to a local optical bus
compatible with the
RS/485 Electronic Industries Association specification. The
interface employs
bias circuitry which is used to "swamp out" differential mode
noise on the
leads of the bus and transorb and MOV circuitry to shunt
common mode voltage
and excessive differential-mode noise to ground. Optical
isolators provide
isolation between digital and communications power supplies
and retriggerable
one shots are used to activate data transmission and
reception indicators such
as LEDs.

Detailed Descriptio

US-PAT-NO: 5384697

DOCUMENT-IDENTIFIER: US 5384697 A

TITLE: Networked facilities management system
with balanced

                       differential analog control outputs

---------- KWIC ---------

Brief Summary Text - BSTX (226):
    Still other aspects of the above objects of the invention
are accomplished
by a customized optical interface to a local optical bus
compatible with the
RS/485 Electronic Industries Association specification. The
interface employs
bias circuitry which is used to "swamp out" differential mode
noise on the
leads of the bus and transorb and MOV circuitry to shunt
common mode voltage
and excessive differential-mode noise to ground. Optical
isolators provide
isolation between digital and communications power supplies
and retriggerable
one shots are used to activate data transmission and
reception indicators such
as LEDs.

Detailed Descriptio

seconds and divisible by twelve.

Detailed Description Text - DETX (406):
   The optical isolation portion of the node has several
optical isolators.
Optical isolator U50 has two parts. A first part of the
optical isolator is
responsive to transmit signal TXDN. This signal drives one
portion of the pair
of optical isolators in U50. The output of this first
portion drives a line
transmitter in U49, which as FIG. 83 shows contains a line
transmitter and a
line receiver. In addition, **retriggerable** one shot U51
responds to the
transmit signal TXDN to source a current to an **LED** or other
indicator which
indicates that the node is transmitting data. In the
transmit mode, a line
transmitter portion of U49 provides signals to the plus and
minus lines of the
bus which drives the slave devices.

Detailed Description Text - DETX (407):
   The same plus

US-PAT-NO: 4631542

DOCUMENT-IDENTIFIER: US 4631542 A

TITLE: Police radar warning receiver with
mute function

---------- KWIC ---------

Detailed Description Text - DETX (16):
    In order to prevent re-energization of the alarm **indicator
during only a
temporary hiatus of alarm condition, such as would occur with
pulsed radar or
where the radar signal fades in or out, alarm condition
detector 15 includes a
retriggerable one-shot** (not shown) which maintains the alarm
condition signal
on output 16 for the duration of an alarm condition and for
approximately four
seconds thereafter. Thus, until four seconds has elapsed
after an alarm
condition actually ceases, output 16 will remain low, thus
maintaining a
disable signal on output 32. Once that interval has elapsed,
output 32 returns
to the enable signal state and alarm 50 will once again be
energized when
output 16 again assumes the alarm condition state.

Current US Cross Reference Classification - CCXR (1):
    340/50

US-PAT-NO: 4402034

DOCUMENT-IDENTIFIER: US 4402034 A

TITLE: Polarity sensitive solid state relay

---------- KWIC ---------

Detailed Description Text - DETX (27):
   As has been mentioned, the output pulse level detectors
107 and 117 are
identical and therefore the circuitry is shown only for the
detector 107. The
level detection is accomplished by the differential amplifier
formed by the
transistors Q3 and Q4 for the positive level pulse detector
107. The base of
transistor Q4 is tied to a reference potential formed by the
resistor voltage
divider R11 and R12. R11 must be a decreasing only failure
mode resistor and
R12 must be an increasing only failure mode resistor. This
provides fail-safe
conditions and under failure conditions, the reference
voltage and the
detection threshold can then only increase. R8 must also be
an increasing only
failure mode resistor. When the input voltage to transistor
Q3 is less than
the threshold voltage, transistor Q3 is off while transistors
Q4 and Q5 are
held on. When the input voltage exceeds the reference
voltage, transistor Q3
turns on and transistors Q4 and Q5 turn off. The circuit
output is taken from
the collector of transistor Q5 and is a sequence of negative
going pulses at
the frequency of the drive signal provided by the
multivibrator 131. The
**retriggerable one-shot 108 is used to widen the pulse lengths
in order to**
provide sufficient energy to drive the LED, which is a light
emitting diode, to
provide a visual indication of circuit operations. As

e
appropriate security codes, which are continuously stored in
the down-loading
machine 26.

Detailed Description Text - DETX (62):
   The audit controller 20 of the present embodiment can be
used with EAROM
modules 24 and with "intelligent" modules, referred to as
probes (not shown),
which communicate using an infrared data link. For this
purpose, the central
processor 702 is connected via an interface 720 to a socket
722 for the EAROM
of the module 24. The processor is also connected via an
input controller 724
to circuits 726 for transmitting and receiving data via the
infrared data link.
The input control circuit 724 is itself controlled by the
output of a port
expander 728 connected to various inputs, **indicators, etc.**
via an opto-isolator
interface 730 and driver circuitry 732.

Detailed Description Text - DETX (77):
   Assuming that all the data has been transferred correctly,
the processor
then stores an

36	8	((("6115713") or ("5884072") or ("5598566") or ("5550980") or ("5552044") or ("5511188") or ("5463735") or ("5444851") or ("5384697")).PN.) and (retrigger$ or led$1)	USPAT	2004/08/03 16:30
37	0	340/$.ccls. and (retriggerable adj one-shot) near3 (indicator$1 or led$1)	USPAT	2004/08/03 16:30
38	1	340/$.ccls. and (retriggerable adj one-shot) near10 (indicator$1 or led$1)	USPAT	2004/08/03 16:32
39	1	340/$.ccls. and (retriggerable adj one-shot) near15 (indicator$1 or led$1)	USPAT	2004/08/03 16:32
40	2	340/$.ccls. and (retriggerable adj one-shot) near20 (indicator$1 or led$1)	USPAT	2004/08/03 16:32

L Number	Hits	Search Text	DB	Time stamp
7	68	data near5 security same indicat$4.ab.	USPAT	2004/08/03 15:27
8	19	data near5 security same (indicator$1 or indication$1).ab.	USPAT	2004/08/03 15:32
9	0	data near5 security same (prevent$4) near15 indicator$1	USPAT	2004/08/03 15:33
10	0	data near5 security same (prevent$4) near5 theft near15 indicator$1	USPAT	2004/08/03 15:33
11	0	data near5 security same (prevent$4) near5 theft near25 indicator$1	USPAT	2004/08/03 15:34
12	0	(prevent$4) near5 theft near10 data near25 indicator$1	USPAT	2004/08/03 15:34
13	0	(prevent$4) near5 theft near15 data near25 indicator$1	USPAT	2004/08/03 15:34
14	89	data near15 (theft or security) near25 indicator$1	USPAT	2004/08/03 15:35
15	87	data near15 (theft or security) near20 indicator$1	USPAT	2004/08/03 15:35
16	80	data near15 (theft or security) near15 indicator$1	USPAT	2004/08/03 15:35
17	18	data near15 (theft or security).ab. and (data near15 (theft or security) near15 indicator$1)	USPAT	2004/08/03 15:35
18	12	(data near15 (theft or security).ab. and (data near15 (theft or security) near15 indicator$1)) not (data near5 security same (indicator$1 or indication$1).ab.)	USPAT	2004/08/03 15:46
19	0	4941174.pn. and "102"	USPAT	2004/08/03 15:47
20	0	4941174.pn. and (led$1 or "102")	USPAT	2004/08/03 15:47
21	1	4941174.pn.	USPAT	2004/08/03 15:50
22	42	(data or security) near5 (leak$4 or breach$4) near25 (indicator$1 or led$1)	USPAT	2004/08/03 15:56
23	12397	(filter$4 or lpf or isolat$4) near15 (indicator$1 or led$1)	USPAT	2004/08/03 15:57
24	10942	(filter$4 or lpf or isolat$4) near10 (indicator$1 or led$1)	USPAT	2004/08/03 15:57
25	10474	(filter$4 or lpf or isolat$4) near10 (indicator$1 or led)	USPAT	2004/08/03 15:58
26	9463	(filter$4 or lpf or isolat$4) near8 (indicator$1 or led)	USPAT	2004/08/03 15:58
27	7245	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led)	USPAT	2004/08/03 15:58
28	366	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led).ab.	USPAT	2004/08/03 15:58
29	1	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led) and ((filter$4 or lpf or isolat$4) near5 (indicator$1 or led).ab.) and data near8 (security or theft or leak$4)	USPAT	2004/08/03 15:59
30	62	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led) and ((filter$4 or lpf or isolat$4) near15 (indicator$1 or led$1)) and data near8 (security or theft or leak$4)	USPAT	2004/08/03 16:00
31	5	(filter$4 or lpf or isolat$4) near5 (indicator$1 or led) and ((filter$4 or lpf or isolat$4) near15 (indicator$1 or led$1)) same data near8 (security or theft or leak$4)	USPAT	2004/08/03 16:02
32	3	(filter$4 or lpf or isolat$4) near15 (indicator$1) same data near8 (security or theft or leak$4)	USPAT	2004/08/03 16:03
33	61	(filter$4 or lpf or isolat$4) near15 (indicator$1) and data near8 (security or theft or leak$4)	USPAT	2004/08/03 16:04
34	58	((filter$4 or lpf or isolat$4) near15 (indicator$1) and data near8 (security or theft or leak$4)) not ((filter$4 or lpf or isolat$4) near15 (indicator$1) same data near8 (security or theft or leak$4))	USPAT	2004/08/03 16:26
35	9	(("6115713") or ("5884072") or ("5598566") or ("5550980") or ("5552044") or ("5511188") or ("5463735") or ("5444851") or ("5384697")).PN.	USPAT	2004/08/03 16:27